In the Claims

Claims 1-74 (Cancelled).

Claim 75 (New). An isolated polypeptide selected from the group consisting of:

- a) a polypeptide comprising SEQ ID NO: 34;
- b) a polypeptide consisting of SEQ ID NO: 34;
- a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity; and
- d) a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 76 (New). The isolated polypeptide according to claim 75, wherein said polypeptide comprises SEQ ID NO: 34.

Claim 77 (New). The isolated polypeptide according to claim 75, wherein said polypeptide consists of SEQ ID NO: 34.

Claim 78 (New). The isolated polypeptide according to claim 75, wherein said polypeptide has at least 95% sequence identity to SEQ ID NO: 34 and has metalloprotease activity.

Claim 79 (New). The isolated polypeptide according to claim 75, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 80 (New). The isolated polypeptide according to claim 79, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to SEQ ID NO: 34.

Claim 81 (New). The isolated polypeptide according to claim 79, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 82 (New). A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a polypeptide selected from the group consisting of:

- a) a polypeptide comprising SEQ ID NO: 34;
- b) a polypeptide consisting of SEQ ID NO: 34;
- c) a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity; and
- d) a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 83 (New). The pharmaceutical composition according to claim 82, wherein said polypeptide comprises SEQ ID NO: 34.

Claim 84 (New). The pharmaceutical composition according to claim 82, wherein said polypeptide consists of SEQ ID NO: 34.

Claim 85 (New). The pharmaceutical composition according to claim 82, wherein said polypeptide has at least 95% sequence identity to SEQ ID NO: 34 and has metalloprotease activity.

Claim 86 (New). The pharmaceutical composition according to claim 82, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 87 (New). The pharmaceutical composition according to claim 86, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to SEQ ID NO: 34.

Claim 88 (New). The pharmaceutical composition according to claim 86, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 89 (New). An immunogenic composition comprising an adjuvant and a polypeptide selected from the group consisting of:

- a) a polypeptide comprising SEQ ID NO: 34;
- b) a polypeptide consisting of SEQ ID NO: 34;
- a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity; and
- a fusion protein comprising a heterologous sequence fused to: SEQ ID NO:
 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34
 and having metalloprotease activity.

Claim 90 (New). The immunogenic composition according to claim 89, wherein said polypeptide comprises SEQ ID NO: 34.

Claim 91 (New). The immunogenic composition according to claim 89, wherein said polypeptide consists of SEQ ID NO: 34.

Claim 92 (New). The immunogenic composition according to claim 89, wherein said polypeptide has at least 95% sequence identity to SEQ ID NO: 34 and has metalloprotease activity.

Claim 93 (New). The immunogenic composition according to claim 89, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a

polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 94 (New). The immunogenic composition according to claim 93, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to SEQ ID NO: 34.

Claim 95 (New). The immunogenic composition according to claim 93, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 96 (New). A method of treating viral or acute liver disease comprising administering to an individual having viral or acute liver disease an effective amount of a pharmaceutical composition comprising a carrier and a polypeptide selected from the group consisting of:

- a) a polypeptide comprising SEQ ID NO: 34;
- b) a polypeptide consisting of SEQ ID NO: 34;
- a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity; and
- d) a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 97 (New). The method according to claim 96, wherein said polypeptide comprises SEQ ID NO: 34.

Claim 98 (New). The method according to claim 96, wherein said polypeptide consists of SEQ ID NO: 34.

Claim 99 (New). The method according to claim 96, wherein said polypeptide has at least 95% sequence identity to SEQ ID NO: 34 and has metalloprotease activity.

Claim 100 (New). The method according to claim 96, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 101 (New). The method according to claim 100, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to SEQ ID NO: 34.

Claim 102 (New). The method according to claim 100, wherein said polypeptide is a fusion protein comprising a heterologous sequence fused to a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 103 (New). The method according to claim 96, wherein said acute liver disease is alcoholic liver failure.

Claim 104 (New). An isolated polynucleotide selected from the group consisting of:

- a) a polynucleotide encoding SEQ ID NO: 34;
- b) a polynucleotide consisting of SEQ ID NO: 33;
- c) a polynucleotide comprising SEQ ID NO: 33;
- a polynucleotide encoding a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity;
- a polynucleotide encoding a fusion protein comprising a heterologous sequence fused
 to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ
 ID NO: 34 and having metalloprotease activity; and
- f) a vector comprising:
 - i) a polynucleotide encoding SEQ ID NO: 34;
 - ii) a polynucleotide consisting of SEQ ID NO: 33;

- iii) a polynucleotide comprising SEQ ID NO: 33;
- iv) a polynucleotide encoding a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity; or
- v) a polynucleotide encoding a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 105 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide encodes a polypeptide comprising SEQ ID NO: 34.

Claim 106 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide encodes a polypeptide consisting of SEQ ID NO: 34.

Claim 107 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide encodes a polypeptide that has at least 95% sequence identity to SEQ ID NO: 34 and has metalloprotease activity.

Claim 108 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide encodes a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 109 (New). The isolated polynucleotide according to claim 108, wherein said polynucleotide encodes a fusion protein comprising a heterologous sequence fused to SEQ ID NO: 34.

Claim 110 (New). The isolated polynucleotide according to claim 108, wherein said polynucleotide encodes a heterologous sequence fused to a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 111 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide comprises SEQ ID NO: 33.

Claim 112 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide consists of SEQ ID NO: 33.

Claim 113 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide is a vector comprising a polynucleotide encoding SEQ ID NO: 34.

Claim 114 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide is a vector that comprises a polynucleotide consisting of SEQ ID NO: 33.

Claim 115 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide is a vector comprising SEQ ID NO: 33.

Claim 116 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide is a vector comprising a polynucleotide encoding a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 117 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide is a vector comprising a polynucleotide encoding a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 118 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide is a vector that encodes a fusion protein comprising a heterologous sequence fused to SEQ ID NO: 34.

Claim 119 (New). The isolated polynucleotide according to claim 104, wherein said polynucleotide is a vector comprising a polynucleotide that encodes a heterologous sequence fused to a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 120 (New). An isolated and transformed host cell comprising a polynucleotide encoding SEQ ID NO: 34.

Claim 121 (New). An isolated and transformed host cell comprising a polynucleotide consisting of SEQ ID NO: 33.

Claim 122 (New). An isolated and transformed host cell comprising SEQ ID NO: 33.

Claim 123 (New). An isolated and transformed host cell comprising a polynucleotide encoding a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.

Claim 124 (New). An isolated and transformed host cell comprising a polynucleotide encoding a fusion protein comprising a heterologous sequence fused to: SEQ ID NO: 34; or a polypeptide having at least 95% sequence identity to SEQ ID NO: 34 and having metalloprotease activity.